

U.S. Application No. 09/670,869
Reply to Office Action dated August 2, 2006

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IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A signal receiving apparatus for receiving a digital satellite broadcasting signal containing at least one of a first broadcast signal in a first format and a second broadcast signal in a second format, comprising:

signal receiving means for receiving said digital satellite broadcasting signal;

judging means for judging whether said digital satellite broadcasting signal received by said signal receiving means is in the first broadcast signal format or in the second broadcast signal format,

wherein said judging means extracts said first broadcast signal or said second broadcast signal from said digital satellite broadcasting signal and scrambles said first broadcast signal or said second broadcast signal;

generating means for generating an analog signal in accordance with the first broadcast signal and for adding to the analog signal a signal for suppressing copying of the analog signal if it is determined by the judging means that the digital broadcast signal satellite is in said first format;

first output means for outputting the analog signal generated in said generating means from an analog interface;

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conversion means for converting the data structure of the second broadcast signal when it is determined by the judging means that the digital satellite broadcast signal is in said second format to generate a third broadcast signal; and

second output means for outputting the third broadcast signal generated in said conversion means from a digital interface;

storage means for storing a user's information, the user's information being a function of the digital satellite broadcasting signal;

transmitting means for transmitting the user information from the storage means to a broadcast station;

wherein the user information is used to determine access to the digital satellite broadcasting signal;

whereby said converting the data structure of the second broadcast signal includes rearranging a timestamp and a packet length of a transport stream of the second broadcast signal.

2. (Original) The signal receiving apparatus as claimed in 1, wherein the digital satellite broadcasting signal is DSS(Direct Satellite System) broadcast signal, the first broadcast signal is an SD (Standard Definition) broadcast signal and the second broadcast signal is an HD (High Definition) broadcast signal.

3. (Original) The signal receiving apparatus as claimed in claim 1, wherein said digital interface is IEEE1394 interface.

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4. (Canceled)

5. (Original) The signal receiving apparatus as claimed in claim 1, further comprising encrypting means for encrypting the third broadcast signal.

6. (Currently Amended) A signal receiving method for a signal receiving apparatus for receiving a digital satellite broadcasting signal containing at least one of a first broadcast signal in a first format and a second broadcast signal in a second format, comprising the steps of:

receiving the digital satellite broadcasting signal;

judging whether the received digital satellite broadcasting signal is in the first broadcast signal format or in the second broadcast signal format;

extracting said first broadcast signal or said second broadcast signal from said digital satellite broadcasting signal;

scrambling said first broadcast signal or said second broadcast signal;

generating an analog signal and adding thereto a signal for suppressing copying thereof in accordance with the first broadcast signal when it is determined that the digital satellite broadcast signal is in the first broadcast signal format;

outputting from an analog interface the generated analog signal;

converting the data structure of the second broadcast signal if it is determined that the digital satellite broadcast signal is in said second format to generate a third broadcast signal;
and

outputting from a digital interface the third broadcast signal;

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storing a user's information, the user's information being a function of the digital
satellite broadcasting signal;

transmitting the user information from the storage means to a broadcast station;

determining access to the digital satellite broadcasting signal as a function of the
user information;

whereby said converting the data structure of the second broadcast signal includes
rearranging a timestamp and a packet length of a transport stream of the second broadcast signal.

7. (Original) The signal receiving method as claimed in claim 6, wherein the
digital satellite broadcast signal is a DSS (Direct Satellite System) broadcast signal, the first
broadcast signal is an SD (Standard Definition) broadcast signal and the second broadcast signal
is an HD (High Definition) broadcast signal.

8. (Original) The signal receiving method as claimed in claim 6, wherein
said digital interface is an IEEE1394 interface.

9. (Canceled)

10. (Original) The signal receiving method as claimed in claim 6, further
comprising an encrypting step of encrypting the third broadcast signal.

11. (Currently Amended) A recording medium recorded with a program
which is readable by a computer and serves to process digital satellite broadcasting signal

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received which contains at least one of a first broadcast signal in a first format and a second broadcast signal in a second format, the program comprising the steps of:

judging whether the received digital satellite broadcasting signal is in the first format or in the second format;

extracting said first broadcast signal or said second broadcast signal from said digital satellite broadcasting signal;

scrambling said first broadcast signal or said second broadcast signal;

generating an analog signal in accordance with the first broadcast signal when it is determined that the digital satellite broadcast signal is in the first broadcast signal format;

adding to the analog signal a signal for preventing the analog signal from being copied;

outputting from an analog interface the generated analog signal;

converting the data structure of the second broadcast signal if it is determined that the digital satellite broadcast signal is in said second format to generate a third broadcast signal;
and

outputting from a digital interface the third broadcast signal;

storing a user's information, the user's information being a function of the digital satellite broadcasting signal;

transmitting the user information from the storage means to a broadcast station;

determining access to the digital satellite broadcasting signal as a function of the user information;

whereby said converting the data structure of the second broadcast signal includes rearranging a timestamp and a packet length of a transport stream of the second broadcast signal.

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12. (Canceled)

13. (Original) The recording medium as claimed in claim 11, further comprising an encrypting step of encrypting the third broadcast signal.

14-21. (Canceled)